

**In the claims:**

Please cancel claims 1, 7-11, 21 and 23 without prejudice.

Please amend the claims indicated below.

1 1. (Cancelled)

2 2. (Amended) A wireless communication system of claim [1] 4, wherein said first  
3 transmission frequency is from a first set comprised of a limited first predetermined  
4 number of frequencies and wherein said second transmission frequency is from a second  
5 set comprised of a limited second predetermined number of frequencies, whereby said  
6 first set of frequencies is different than said second set of frequencies.

7 3. (Unchanged) The wireless communication system of claim 2, wherein said first  
8 predetermined number of frequencies is three and said second predetermined number of  
9 frequencies is three.

10 4. (Amended) [The wireless communication system of claim 1, wherein said base  
11 station is dynamically assigned said first transmission frequency]

A wireless communication system, comprising:

a pattern of cells;

a base station dynamically assigned a first transmission frequency for transmitting  
to a first cell in said pattern of cells, said first transmission frequency not  
being assigned to any base station for transmitting to any cell in said  
pattern of cells adjacent to said first cell; and

one or more user stations each assigned a second transmission frequency for

transmitting to said base station for the respective first cell, said second

11 transmission frequency not being assigned to any user station in any cell in  
12 said pattern of cells adjacent to said first cell;  
13 wherein said base and said user stations communicate using time division  
14 multiple access.

5. (Amended) The wireless communication system of claim [1] 4, wherein the  
user stations in said first cell are dynamically assigned said second transmission  
frequency.

6. (Amended) [The wireless communication system of claim 1, wherein  
transmissions between said base station transmitting to said first cell and the user stations  
in said first cell are time division duplexed.]

A wireless communication system, comprising:

a pattern of cells;

a base station assigned a first transmission frequency for transmitting to a first cell

in said pattern of cells, said first transmission frequency not being

assigned to any base station for transmitting to any cell in said pattern of

cells adjacent to said first cell; and

one or more user stations each assigned a second transmission frequency for

transmitting to said base station for the respective first cell, said second

transmission frequency not being assigned to any user station in any cell in

said pattern of cells adjacent to said first cell;

wherein said base and user stations communicate using time division multiple

access, and transmissions between said base station transmitting to said

first cell and the user stations in said first cell are time division duplexed.

1 7. (Cancelled)

1 8. (Cancelled)

1 9. (Cancelled)

1 10. (Cancelled)

1 11. (Cancelled)

1 12. (Unchanged) A wireless communication system, comprising:

2 a pattern of cells;

3 a base station; and

4 one or more user stations;

5 wherein said base station is assigned a first transmission frequency for

6 transmitting to a first cell in said pattern of cells, said first transmission

7 frequency not being assigned to any base station for transmitting to any

8 cell in said pattern of cells adjacent said first cell;

9 wherein said user stations in said first cell are assigned a second transmission

10 frequency, said second transmission frequency not assigned to any user

11 stations in any cell in said pattern of cells adjacent said first cell;

12 wherein said base station is further assigned a first spread spectrum code for

13 modulating radio communication for said first cell; and

14 wherein said user stations in said first cell are each assigned a second spread

15 spectrum code for modulating radio communication from said first cell.

1 13. (Unchanged) The wireless communication system of claim 12, wherein said first  
2 transmission frequency is from a first set comprised of a limited first predetermined  
3 number of frequencies and wherein said second transmission frequency is from a second  
4 set comprised of a limited second predetermined number of frequencies.

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1 14. (Unchanged) The wireless communication system of claim 13, whereby the  
2 frequencies of said first set of frequencies are mutually exclusive of the frequencies of  
3 said second set of frequencies.

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1 15. (Unchanged) The wireless communication system of claim 13, wherein said first  
2 predetermined number of frequencies is three and said second predetermined number of  
3 frequencies is three.

1 16. (Unchanged) The wireless communication system of claim 12, wherein said base  
2 station is dynamically assigned said first transmission frequency.

1 17. (Unchanged) The wireless communication system of claim 12, wherein a user  
2 station is dynamically assigned said second transmission frequency when it enters said  
3 first cell.

1 18. (Unchanged) The wireless communication system of claim 12, wherein each  
2 base station servicing said pattern of cells uses said first spread spectrum code for  
3 modulating radio communication for said pattern of cells uses said second spread  
4 spectrum code for modulating radio communications from said pattern of cells.

1 19. (Unchanged) The wireless communication system of claim 12, wherein said  
2 pattern of cells comprises a repeated pattern of cells consisting essentially of a first class

3 of cells, a second class of cells, and a third class of cells, wherein no member of said first  
4 class of cells is adjacent to another member of said first class of cells, no member of said  
5 second class of cells is adjacent to another member of said second class of cells, and no  
6 member of said third class of cells is adjacent to another member of said third class of  
7 cells.

1 20. (Unchanged) The wireless communication system of claim 12, wherein said first  
2 spread spectrum code and said second spread spectrum code comprises a set of codes  
3 with minimal cross-correlation attributes.

1 21. (Cancelled)

1 22. (Amended) [The multiple user wireless communication system of claim 21,  
2 wherein said base station communicates with said user stations using time division  
3 duplexing.]

4 A multiple user wireless communication system, comprising:  
5 a plurality of cells;  
6 a base station located in each cell to transmit over a first frequency; and  
7 one or more user stations in communication with said base station to transmit over  
8 a second frequency different from said first frequency.  
9 wherein transmitters in a first cell are assigned a first code for modulating radio  
10 communication in said first cell and radio signals used in said first cell are  
11 spread across a bandwidth sufficiently wide that receivers in a second cell  
12 adjacent to said first cell may distinguish communication which originates  
13 in said first cell from communication which originates in said second cell;

14 wherein said first cell using said first code is not adjacent to any other cell using  
15 said first code;

1 23. (Cancelled)

1 24. (Amended) [The wireless communication system of claim 23, wherein said  
2 base station is assigned a first set of one or more distinct spreading codes for  
3 communicating with user stations in said first cell, said first set of one or more distinct  
4 spreading codes not being assigned to any base station for communicating in any cell in  
5 said plurality of cells adjacent said first cell, and wherein said user stations in said first  
6 cell are assigned a second set of one or more distinct spreading codes, said second set of  
7 one or more distinct spreading codes not assigned to any user stations in any cell in said  
8 plurality of cells adjacent said first cell.]

9 a plurality of cells;

10 a base station assigned a first transmission frequency for transmitting to a first cell

11 in said plurality of cells, said first transmission frequency not being  
12 assigned to any base station for transmitting to any cell in said plurality of  
13 cells adjacent said first cell; and

14 a plurality of user stations in said first cell assigned a second transmission  
15 frequency not assigned to any user stations in any cell in said plurality of  
16 cells adjacent said first cell;

17 wherein said base station and said user stations in said first cell are assigned one  
18 or more distinct codes for modulating radio communication for said first  
19 cell; and

20 wherein said base station is assigned a first set of one or more distinct spreading  
21 codes for communicating with user stations in said first cell that are not  
22 assigned to any base station for communicating in any cell in said plurality  
23 of cells adjacent said first cell, and said user stations in said first cell are  
24 assigned a second set of one or more distinct spreading codes that are not  
25 assigned to any user stations in any cell in said plurality of cells adjacent  
26 said first cell.

1 25. (Unchanged) The wireless communication system of claim 23, wherein said base  
2 station communicates with said user stations using time division duplexing.